Doc 510 1968

UNITED STATES
DEPARTMENT OF THE INTERIOR

DI-6

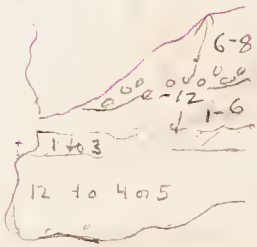
APPROVED DECEMBER 1941

K.M. Waage
doc 510

Colorado - New Mexico

CLYDE VANWINKLE
784-6126

Skyline Hogback



coarse cgl - cht + vcd qtzite

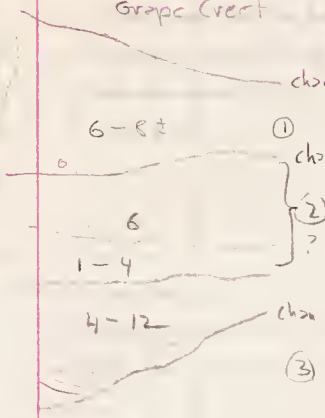
clst - brcak

with s... qtz
rd c...
ptw... &

Weakly cgl. ss clean bc...
Shallow channeled contact

Morrison variegated clstn sub - dr...

Lytle below the Grape Creek



① Congl. ss, clean tr. x bedded channel ss with coarse cgl. sand stringers, incorp. at base chunches of grey to greenish grey sandy claystone. Cgl incl. red qutzite pebbles (p.l.) and var. chert.

② Sandstone, clayey + clayey sand. Fairly persistent

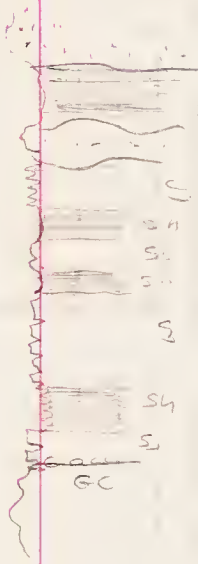
③ clstn, gray to green gray at base.

③ Sandstone, med.-gr loc. calte-sparsely, at base, tranqu X lam sets. Locally interfinger with clstn & sandy clstn as above

Grape Creek Lens.

Along road several phases

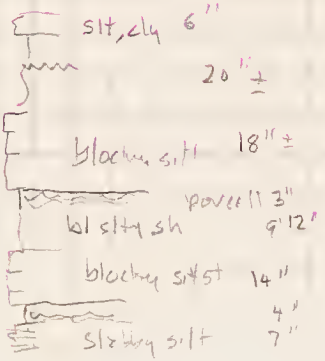
Near crest channel in Lytle has carb. shale + plant frag. silt + sand at base, not as calc as thicker part in well defined channel sand down hill. About 4'+ of plant. bearing sand + sh at base overlain by massive thoroughly mixed sand with plant frags throughout



mined sh.

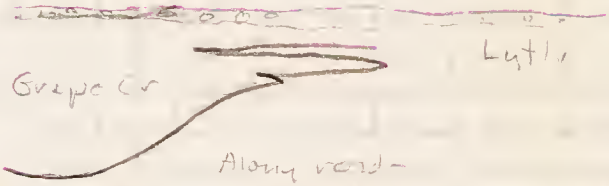
thin massive sd.

Silazun Road



Don K Ranch - Red Creek Valley

Glen

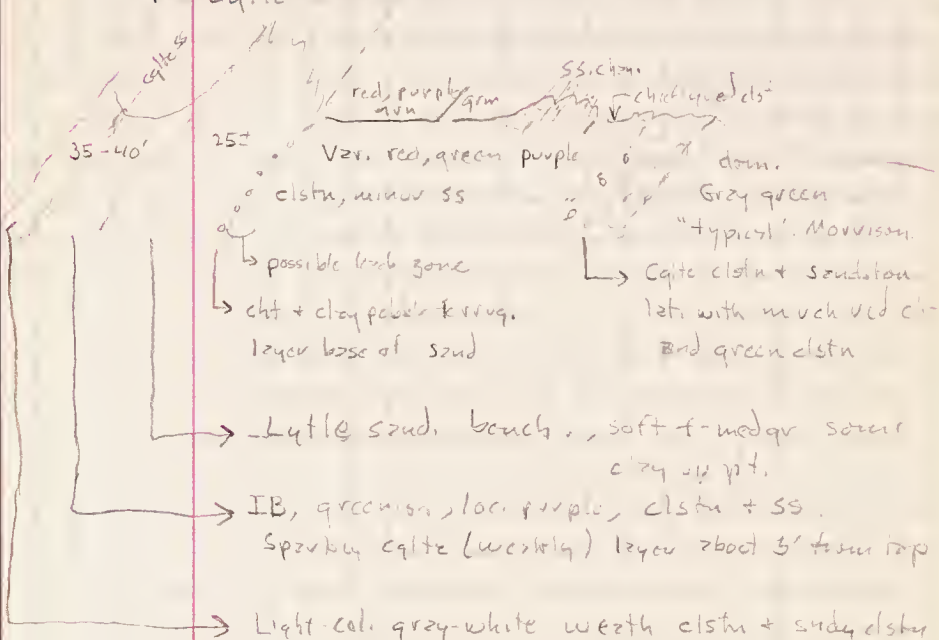


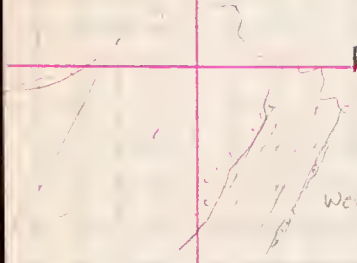
Along road -
South side Red Creek exposure shows intertonguing Grape Cr. going out laterally into Lytle lithol.

Colo. Springs Area

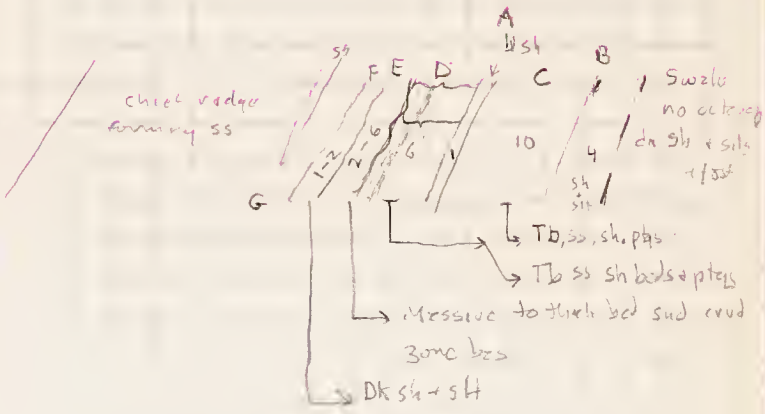
① Stone quarry hogback cut N. Garden of Gods.

Morrison. Grey-green clstns and sndst in thin channeling beds just beyond bend into Morrison Valley.


Lytle
calc
35-40'
25°
red, purple, grn mvn
SS, chan
chert pebbles
clst
Var. red, green purple clstn, minor SS
down.
Grey green "typical" Morrison.
possible bnch zone
cht + clay pebbles & irreg. layer base of sand
Calc clstn + sandstone lst. with much red & green clstn
Lytle sand. bench., soft & med gr sorted clay silt pt.
IB, greenish, loc. purple, clstn + SS. Sparkly calc (weathg) layer about 3' from top
Light-col. grey-white weath clstn + sandy clstn with red & yellow pods Fe conc. source with Fe specks.



20' Sand, zones clay pebbles + grit and thin lite grey clstn + shale. Sand in tabular x lam beds which are large gentle x beds in lower 5'± Above more massive with poss obl deform str. Lower tabular with worm wkd bedding planes Upper massive cuts into tabular with coarse pebble beds at base



A. Silty carb clstn with rootlets top underlying sand with rootlets.

B. Highly carb sh at top, over burrowed clayey silt

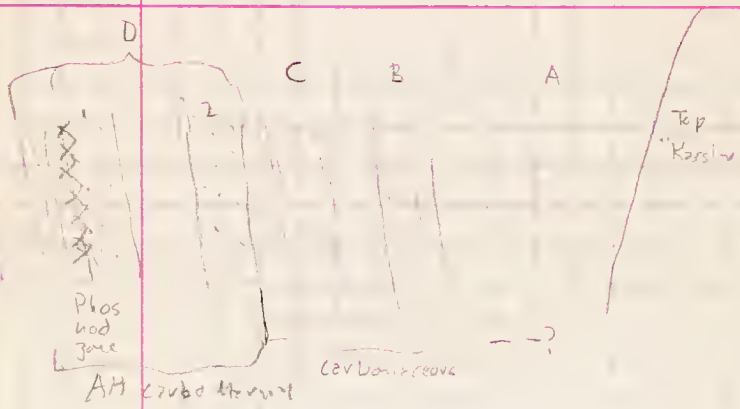
C. Poorly defined burrowing, cursive type with clay frags and pellets

D Similar to C - plant frags + pellets grades becoming more even bedded upwards 10" carb silty clstn plant frags - blocky Lower upper 2'. ss just below is worm mud Top is double bed have black finely sandy silt, plant frags, grey + dk green mottled

E. Chiefly massive ss with reworked zone clay pebbles alternating with sand beds + sh ptgs in lower half. Upper half chiefly one thick bed ss.

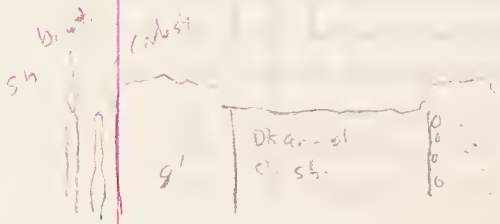
F. Shale + silt sh. Lower 6' rel. clean d. sh. then silt layer, then silt sh plant frags dk gy-bl. Above is red + mottled silty plant frags. looks like Fe conc. under discont base overlying ss.
Single small layer with few burrows only sign Inv.

G. Basal pebl ss, channeling X bd sets clay pebd reworked zones. Locally a thin carb sh silt in channel at base.

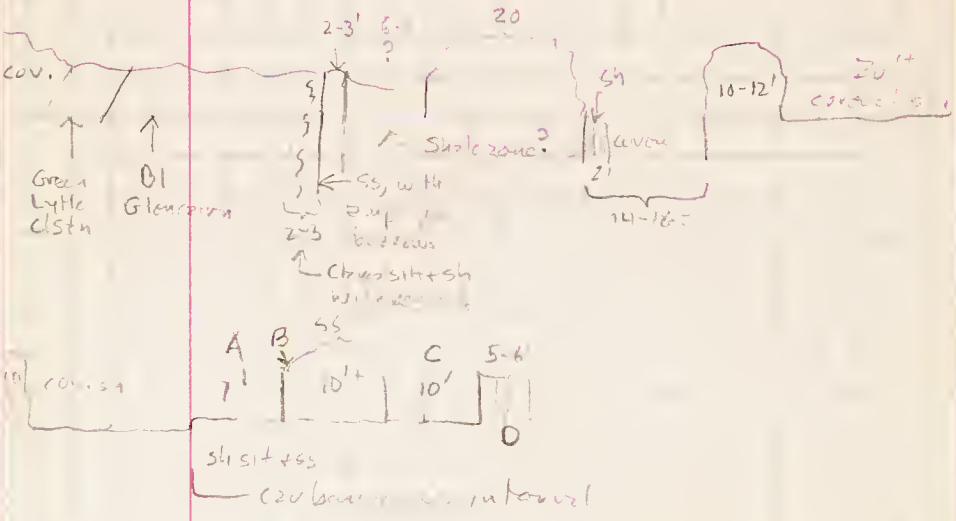


B+C — Carbshale some carb silts+ fine sndst clasts no good evidence burrowing. At top under D it is locally lignitic

D — Med grss + carb sh. Massive beds (1+2) + 1b Slzbly sndst sh above each. Phos nod zone top upper massive. Worm worked zones at top



Fountain Cr. Sections



A. Interbedded fine ss silt. sh carb. Contains b, more evidence of burrowing. Thru at Castle [illegible] Creek. Base not seen. Carb shale litho

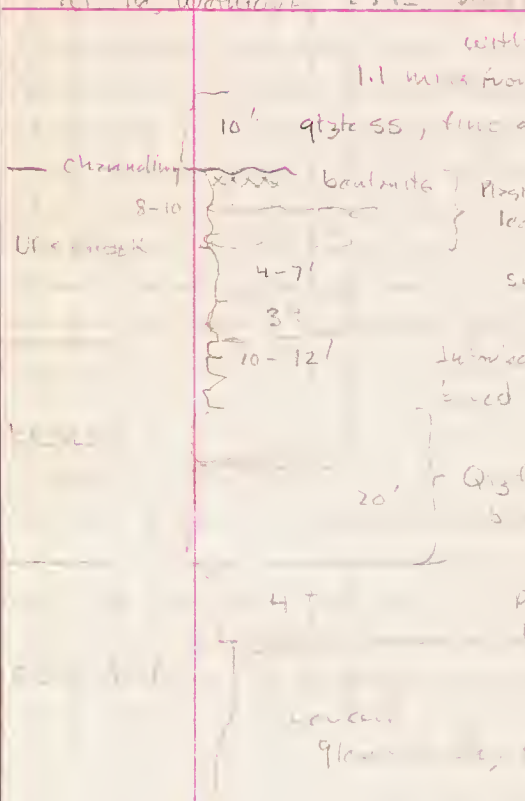
B. Base of ss bed Lingula-plant frag - phosphoid zone presumably sandy

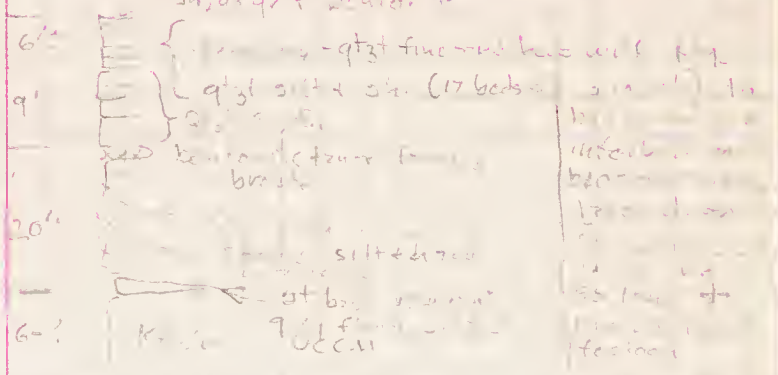
C Thin silt+sh interval + interlam. top + base middle shaley, covered,

D Chert y silt in blocky tabular beds, lam interbedded sh + z thin ss at top

E Shale with [illegible] zone at top 1' 6" silty sh base

Scrapper Creek Section


with Bed
10' qtzite ss, fine gr
Channeling
boulders
8-10
4-7'
3'
10-12'
20'
4'



North Headwaters Cont.

Estuary at last 10' elevation between upper hayfork & east hayfork.

South Headwaters

Section (E-26 cut at

5' [illegible]

xxxx brace to

xxxx 2' stitch

4' So. channel

5' Loc.

Top Keeper

Grade Control Calculation

Bedrm 6 Left Hand Room

Sq. Inches of Paving covered by Furniture

Proposed Height

DECM 6-6

Sq. Inches of Paving, in Open Floor Space

88.7
83.1
5.6

6.6 mi. S of Colo-NMex line on NM 551. Point of Rks to W of road

New Mexico

#1

20-25'

6+

16+

2.5-1

6

5

2-3

4-5'

10

10.+

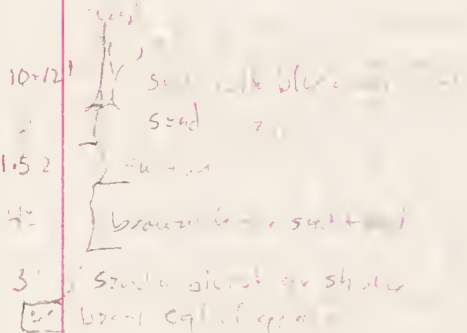
4.+

3.5

New Mex #1

Rd cut 4.6 miles S. Colo line on N.M. Ex 581

See ref[illegible] back of book



Hagler

Black [illegible] over [illegible] clay base

4.5 to 4" bentonite

Include crumbly [illegible] 2' above base. Remainder [illegible] silty silt + silty clay

-.5 to ½" bentonite - crumbly [illegible] silty clay

-.5 to [illegible] pipe tip.

2.5 to 1" bentonite

Plastic [illegible] over soil (2.5-3.1)

5.5 to 4" bentonite

6.0 to first [illegible] dk silty sand.

7.5 to 8.0 ft of soft silt [illegible]

4.0 dk. silty silt [illegible].

6.0 Soft wet silty sand [illegible]

5.5 Silty clay base up to [illegible] gray + white silts [illegible] interbedded in upper 2 ft

10' [illegible] sand, [illegible] with gray wkd sd [illegible] at top.
(Well [illegible] wkd sd)

4' [illegible]

1' wkd sd with 2-3' cap
[illegible]

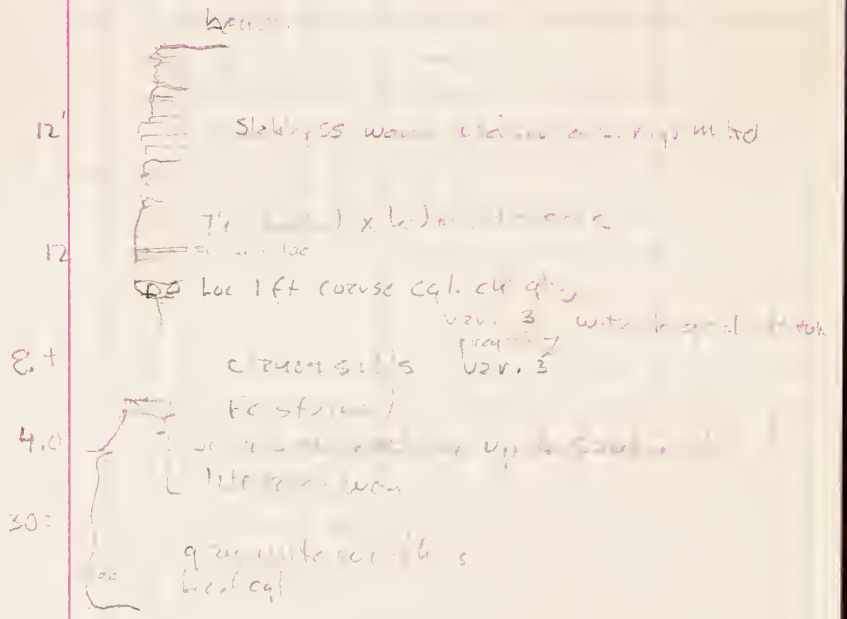
20' [illegible] slope to [illegible] bed
with wkd

6' [illegible]
sh grad [illegible]

5' [illegible] - sparse [illegible]
about 1' [illegible]
[illegible]

1' [illegible]

Perry Pkt



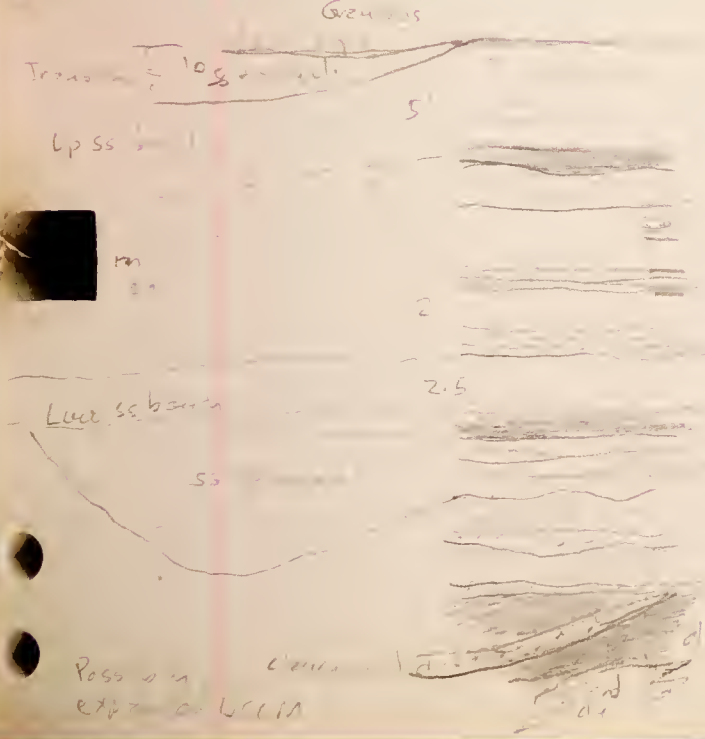
Power Push - upper Seat.

12+

20+

3-6

30


Gneiss
5'
2
2.5